Physical Sciences.

Question 3)



Thermal energy from the sun is transferred to the tennis player via his food, this food transfers energy to the player, Kinetic energy to hit the ball. The kinetic energy is transferred from the player to potential energy in the springy net on the racket which is further transferred to the potential and sound energy of the ball. Once the ball is hit it’s kinetic energy is transferred to gravitational energy as it falls to the ground.

Potential energy from muscle tissue transferred to kinetic energy.

Kinetic energy used to push vacuum nozzle.

Thermal energy transferred to food transferred to kinetic energy to use vacuum cleaner.

C:\Users\User\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\6QIMMLW2\MC900053412[1].wmf

Unwanted heat energy from friction and dust particles.

Unused Sound energy transfers to surrounding atmosphere.

Electrical energy transferred into movement energy (suction) and sound energy.